PCT/US2004/034970 WO 2005/037235

#### SEQUENCE LISTING

#### CDRs For FR1-H7 Amino Acid Sequences

VH (human heavy chain subclass I)

CDR1 SEQ ID NO:1 DYYMH

CDR2 SEQ ID NO:2 CDR3 SEQ ID NO:3 LVDPEDGETIYAEKFQG

DDYMDV

VL (human kappa light chain subgroup III)

CDR1 SEQ ID NO:4 RASQSVSGSALA

CDR2 SEQ ID NO:5 DASSRAT
CDR3 SEQ ID NO:6 QQYGSSPLT

## Variable Region of FR1-H7 Heavy Chain

#### Amino Acid Sequence

#### SEQ ID NO:7

MAEVQLVQSGAEVKKPGASVKVSCKVSGYTFTDYYMHWVQQAPGKGLEWMGLVDPEDGET IYAEKFQGRVTITADTSTDTAYMELSSLRSEDTAVYYCARDDYMDVWGKGTLVTVSSAST KGP

## Variable Region of FR1-H7 Light Chain

#### Amino Acid Sequence

#### SEQ ID NO:8

LETTLTQSPDTLSLSPGEGATLSCRASQSVSGSALAWYQQKPGQAPRLLIYDASSRATGV PDRFSGSGSGADFSLTISRLEPEDFAVYSCQQYGSSPLTFGPGTKVDVKRTVAAPSVFIF PPSDEQLKSGTASVVCLLNNFYPREAKVQWKVD

## CDRs For FR1-A1 Amino Acid Sequences

VH (human heavy chain subclass I)

GYYMH CDR1 SEQ ID NO:9

CDR2 SEQ ID NO:10 RIIPILGIANYAQKFQG

CDR3 SEQ ID NO:11 GGDLGGMDV

VL (human kappa light chain subgroup III)

CDR1 SEQ ID NO:12 RSSQSLRHSNGYNYLD

CDR2 SEQ ID NO:13 LASNRAS

CDR3 SEQ ID NO:14 MQALQIPPT

## Variable Region of FR1-A1 Heavy Chain

#### Amino Acid Sequences

#### SEQ ID NO:15.

MAQVQLVQSGAEVKKPGSSVKVSCKASGQTFTGYYMHWVRQAPGQGLEWMGRIIPILGIA NYAQKFQGRVTITADKSTSTAYMELSSLRSEDTAVYYCARGGDLGGMDVWGQG

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## Variable Region of FR1-A1 Light Chain

#### Amino Acid Sequences

#### SEQ ID NO:16

LEIVLTQSPLSLPVTPGEPASISCRSSQSLRHSNGYNYLDWYLQKPGQSPQLLIYLASNR ASGVPDRFSGSGSGTDFTLKISRVEAEDVGVYYCMQALQIPPTFGPGTKVDIKRTVAA

#### CDRs For FR1-4H Amino Acid Sequences

Varia	able	Heavy	Chain	
CDR 1	SEO	ID NO:	: 17	SYYWS

CDR1 SEQ ID NO:17 SYYWS
CDR2 SEQ ID NO:18 YIYYSGSTNYNPSLKS
CDR3 SEQ ID NO:19 EYYYDSSGYYFYAFDI

Variable Light Chain]

CDR1 SEQ ID NO:20 SGSSSNIGSNYVY CDR2 SEQ ID NO:21 RNNQRPS CDR3 SEQ ID NO:22 AAWDDSLSGWV

## Variable Region Heavy Chain FR1-4H

## Amino Acid Sequences

#### SEQ ID NO:23

OVQLVEFGPGLVKPSETLSLTCTVSGGSISSYYWSWIRQPPGKGLEWIGY	50
IYYSGSTNYNPSLKSRVAISVDTSKNQFSLKLSSVTAADTAVYYCAREYY	100
III 5G5 ININFSDR5RVAIS VDISINQI BEREBUTI III ETTI III CIMBII	
	104
YDSSGYYFYAFDIWGQGTTVTVSS	124
IDDDCIII III DINOQUII VI VO	

#### Variable Region Light Chain

#### Amino Acid Sequence

#### SEQ ID NO:24

LPVLTQPPSASGTPGQRVSISCSGSSSNIGSNYVYWYQQLPGTAPKLLIF	50
RNNORPSGVPDRFSGSKSGTSASLAISGLRSEDEADYYCAAWDDSLSGWV	100
KNINOK PROGRESSION TO THE PROGRESSION OF THE PROGRE	
FGGGTKLTVLG	111

#### CDRs For FR1-H7 Nucleic Acid Sequences

#### VH (human heavy chain subclass I)

CDR1 SEQ ID NO:25 GACTACTACATGCAC

CDR2 SEQ ID NO:26 CTTGTTGATCCTGAAGATGGTGAAACAATCTACGCAGA

GAAGTTCCAGGGC

CDR3 SEQ ID NO:27 GATGACTACATGGACGTC

## VL (human kappa light chain subgroup III)

CDR1 SEQ ID NO:28 AGGGCCAGTCAGAGTGTTAGCGGCAGTGCGTTGGCC

CDR2 SEQ ID NO:29 GATGCATCCAGTAGGGCCACT

CDR3 SEQ ID NO:30 CAGCAATATGGTAGCTCACCTCTCACT

## Variable Region of FR1-H7 Heavy Chain DNA Sequence

SEO ID NO:31

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ATGCCGAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGGCCTCAGTG
AAGGTTTCCTGCAAGGTTTCTGGATACACCTTCACCGACTACTACATGCACTGGGTGCAA
CAGGCCCCTGGAAAAGGGCTTGAGTGGATGGGACTTGTTGATCCTGAAGATGGTGAAACA
ATCTACGCAGAGAAGTTCCAGGGCAGAGTCACCATAACCGCGGACACGTCTACAGACACA
GCCTACATGGAGCTGAGCAGCCTGAGATCTGAGGACACGCCGTGTATTACTGTGCGAGA
GATGACTACATGGACGTCTGGGGCCAAAGGCACCCTGGTCACCGTCTCAAGCGCCTCCACC
AAGGGCCCA

# Variable Region of FR1-H7 Light Chain DNA Sequence SEO ID NO:32

CTTGAAACGACACTCACGCAGTCTCCAGACACCCTGTCTTTGTCTCCAGGAGAAGGAGCC
ACCCTCTCCTGTAGGGCCAGTCTAGAGTGTTAGCGGCAGTGCGTTGGCCTGGTACCAGCAG
AAACCTGGCCAGGCTCCCAGACTCCTCATCTATGATGCATCCAGTAGGGCCACTGGCGTC
CCAGACAGGTTCAGTGGCAGTGGGTCTGGGGCAGACTTCAGTCTCACCATCAGCAGACTG
GAGCCTGAAGATTTTGCAGTGTATTCCTGTCAGCAATATGGTAGCTCACCTCTCACTTTC
GGCCCTGGGACCAAAGTGGATGTCAAACGAACTGTGGCTGCACCATCTGTCTTCATCTTC
CCGCCATCTGATGAGCAGTTGAAATCTGGAACTGCCTCTGTTGTGTGCCTGCAATAAC
TTCTATCCCAGAGAGGCCAAAGTACAGTGGAAGGTGGATG

## CDRs For FR1-A1 Nucleic Acid Sequences

VH (human heavy chain subclass I)

CDR1 SEQ ID NO:33 GGCTACTATATGCAC

CDR2 SEQ ID NO:34 AGGATCATCCCTATCCTTGGTATAGCAAAC

TACGCACAGAAGTTCCAGGGC

CDR3 SEQ ID NO:35 GGAGGAGATCTGGGCGGTATGGACGTC

VL (human kappa light chain subgroup III)

CDR1 SEQ ID NO:36 AGGTCTAGTCAGAGCCTCCGGCATAGTAAT

GGATACAACTATTTGGAT

CDR2 SEQ ID NO:37 TTGGCTTCTAATCGGGCCTCC

CDR3 SEQ ID NO:38 ATGCAAGCTCTACAAATTCCTCCGACT

#### Variable Region of FR1-A1 Heavy Chain

DNA Sequence

SEQ ID NO:39

ATGCCCAGGTCCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGAAGCCTGGGTCCTCGGTG
AAGGTCTCCTGCAAGGCTTCTGGATCGACCTTCACCGGCTACTATATGCACTGGGTGCGA
CAGGCCCCTGGACAAGGGCTTGAGTGGATGGGAAGGATCATCCCTATCCTTGGTATAGCA
AACTACGCACAGAAGTTCCAGGGCAGAGTCACGATTACCGCGGACAAATCCACGAGCACA
GCCTACATGGAGCTGAGCAGCCTGAGATCTGAGGACACGGCCGTGTACTACTGTGCGAGA
GGAGGAGATCTGGGCCGGTATGGACGTCTGGGGCCCAAGGGA

## Variable Region of FR1-A1 Light Chain

DNA Sequences

SEQ ID NO:40

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## CDRs For FR1-4H Nucleic Acid Sequences

Variable	Heavy	Chain
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CDR1 SEQ ID NO:41 AGTTACTACTGGAGC

CDR2 SEQ ID NO:42

CDR3 SEQ ID NO:43

GAGTATTACTATGATAGTGGTTATTACTTTTATGCTTTTGATATC

#### Variable Light Chain]

CDR1 SEQ ID NO:44 TCTGGAAGCAGCTCCAACATCGGAAGTAATTATGTATAC

CDR2 SEQ ID NO:45 AGGAATAATCAGCGGCCCTCA

CDR3 SEQ ID NO:46 GCAGCATGGGATGACAGCCTGAGTGGTTGGGTG

## Variable Region Heavy Chain FR1-4H

#### DNA Sequences

#### SEO ID NO:47

CAGGTGCAGCTGGAGGTTTGGCCCAGGACTGGTGAAGCCTTCGGAGAC	50
CCTGTCCCTCACCTGCACTGTCTCTGGTGGCTCCATCAGTAGTTACTACT	100
GGAGCTGGATCCGGCAGCCCCCAGGGAAGGGACTGGAGTGGATTGGGTAT	150
ATCTATTACAGTGGGAGCACCAACTACAACCCCTCCCTCAAGAGTCGAGT	200
CGCCATATCAGTAGACACGTCCAAGAACCAGTTCTCCCTGAAGCTGAGCT	250
CTGTGACCGCCGCGACACGGCCGTGTATTACTGTGCGAGAGAGTATTAC	300
TATGATAGTAGTGGTTATTACTTTTATGCTTTTGATATCTGGGGCCAAGG	350
GACCACGGTCACCGTCTCAAGC	372

#### Variable Region Light Chain

#### DNA Sequence

#### SEQ ID NO:48

CTGCCTGTGCTGACTCAGCCCCCCTCAGCGTCTGGGACCCCCGGGCAGAG	50
GGTCTCCATCTCTTGTTCTGGAAGCAGCTCCAACATCGGAAGTAATTATG	100
TATACTGGTACCAGCAGCTCCCAGGAACGGCCCCCAAACTCCTCATCTTT	150
AGGAATAATCAGCGGCCCTCAGGGGTCCCTGACCGATTCTCTGGCTCCAA	200
GTCTGGCACTTCAGCCTCCCTGGCCATCAGTGGGCTCCGGTCCGAGGATG	250
AGGCTGATTATTACTGTGCAGCATGGGATGACAGCCTGAGTGGTTGGGTG	300
TTCGGCGGAGGACCAAGCTGACCGTCCTAGGT	333